DECLARATION and POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:							
My residence, post office address and citizenship are as stated below next to my name.							
	riginal, first and sole inventor (if onl				and joint inventor (if plural name	s are listed	
below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
PURIFICATION	OF TITANIUM TETRACHLORIE	Œ			•		
the specification of v	which is attached hereto unless the f	ollowing	box is checked:		•		
was filed on 09	January 2004 as U.S. Applicat	ion No		or PCT Internati	ional Application No. PCT/USC	4/00765	
and was am	ended on	(if	applicable).				
	have reviewed and understand th	ne conte	nts of the above	identified specification	n, including the claims, as amen	ded by any	
amendment referred	I to above. uty to disclose information which is I	known to	me to be material	to patentability as de	fined in 37 CFR § 1.56.		
I hereby claim foreig	gn priority benefits under 35 U.S.C.	. § 119(a)-(d) or § 365(b)	of any foreign applica	ation(s) for patent or inventor's c		
§ 365(a) of any PC	T International application which di checking the box, any foreign appli	lesignate	d at least one co	ountry other than the	United States, listed below and	d have also	
before that of the ap	plication on which priority is claimed	l. _.				a ming date	
Application	on No. Cour	ntry	, F	iling Date	Priority Claimed (Yes / No)		
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I hereby claim the b	enefit under 35 U.S.C. § 119(e) of a		States Provision	al Application(s) listed	i below.	,,	
	U.S. Provisional Application N				U.S. Filing Date	,	
	60/439190			(09 January 2003		
			•				
I hereby claim the b	enefit under 35 U.S.C. § 120 of any	United S	states application/	s), or § 365(c) of any	PCT International Application des	signating the	
United States, listed	d below and, insofar as the subject	matter	of each of the cla	ims of this applicatio	on is not disclosed in the prior U	nited States	
information which is	International Application in the man known to me to be material to pate	entability	as defined in 37	CFR§ 1.56 which be			
prior application and Applicati	the national or PCT International fil	-	of this application. Ig Date	•	Status		
Application	on No.	run	A rare		- Cialus		

	RNEY: I hereby appoint the following ademark Office connected therewith		y(s) and/or agent(s) the power to prose	cute this application and transact	all business	
Name: JESSICA	M. SINNOTT			Registration No.:	34,015		
Send correspondent	ce and direct		•		Tel. No.		
	M ČININOTT		Pont de Nemoui Patents	rs and Company	(302) 992-4895		
JESSICA	M. SINNOTT		gton, DE 19898,	U.S.A.	Fax No. (302) 992-4773		
I hereby declare that	at all statements made herein of my	own kno	wledge are true a	nd that all statements	<u>``</u>	are believed	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity							
	any patent issuing thereon.	o oi the t	Jinted States Cod	e and that such willfu	ıı ıaıse statements may jeopardizi	e the validity	
			INVENTOR(S)				
Full Name	Last Name CRONIN	4 5 7 7	First Name JAMES		Middle Name TIMOTHY		
of Inventor	Signature (please sign full name):		· ·		· Date:		
					<u> </u>	•	
Residence & Citizenship	City TOWNSEND		State or Foreign DELAWARE	Country	Country of Citizenship US		
Post Office	Post Office Address		City		State or Country	Zip Code	
Address .,	188 GREEN GIANT ROAD		TOWNSEND		DELAWARE	19734	

		INVENTOR(S)		
Full Name of Inventor	Last Name ELKINS	First Name THOMAS	Middle Name	
or inventor	Signature (please sign full name):	SHIELDS Date:		
Residence & Citizenship	City WAVERLY	State or Foreign Country TENNESSEE	Country of Citizenship	
Post Office Address	Post Office Address 488 GREGSON PLACE	City WAVERLY	State or Country TENNESSEE	Zip Code 37185
Full Name of Inventor	Last Name _HELBERG	First Name LISA	Middle Name EDITH	
	Signature (please sign full name):	lben	Date: 6-16-20	o <i>5</i>
Residence & Citizenship	City MIDDLETOWN DE.	State or Foreign Country DELAWARE	Country of Citizenship US	
Post Office Address	Post Office Address 111 BARNACLE COURT	City MIDDLETOWN	State or Country DELAWARE	Zip Code 19709
Full Name of Inventor	Last Name MIRABELLA	First Name STEVE	Middle Name EDWARD	
	Signature (please sign full name):		Date:	
Residence & Citizenship	City NEW JOHNSONVILLE	State or Foreign Country TENNESSEE	Country of Citizenship US	A*
Post Office Address	Post Office Address 613 BLUE HERON COVE	City NEW JOHNSONVILLE	State or Country TENNESSEE	Zip Code 37134
Full Name of Inventor	Last Name MERKLE, JR.	First Name JAMES	Middle Name ELLIOTT	
	Signature (please sign full name):		Date:	-
Residence & Citizenship	City LONG BEACH	State or Foreign Country TENNESSEE	Country of Citizenship US	
Post Office Address	Post Office Address 20289 HAYIES ROAD	City LONG BEACH	State or Country TENNESSEE	Zip Code 39560
Full Name of Inventor	Last Name	First Name	Middle Name	
20%	Signature (please sign full name):		Date:	
Residence & Citizenship	City	State or Foreign Country	Country of Citizenship	
Post Office Address	Post Office Address	City	State or Country	Zip Code
Full Name of Inventor	Last Name	First Name	Middle Name	
	Signature (please sign full name):		Date:	
Residence & Citizenship	City	State or Foreign Country	Country of Citizenship	
Post Office Address	Post Office Address	City	State or Country	Zip Code

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Rec'd PCT/PTO 20 JUL 2005

Rev. 06/95

Docket Number: CH2883 US PCT

DECLARATION and POWER OF ATTORNEY

As a below-named i	nventor, I hereby declare that:			- .			
My residence, post office address and citizenship are as stated below next to my name.							
below) of the subject	t matter which is claimed and for wh	ich a patent is sought		st and joint inventor (if plural names :	are listed		
PURIFICATION	OF TITANIUM TETRACHLORIE	DE		•			
·	which is attached hereto unless the bullets the bullets as U.S. Applicates			ational Application No. PCT/US04/	00765		
and was am	•	(if applicable).			• .		
			pove identified specificat	ion, including the claims, as amende	ed by any		
amendment referred			·	•	, ,		
§ 365(a) of any PC identified below, by before that of the ar	T International application which of checking the box, any foreign application on which priority is claimed	lesignated at least o cation for patent or in	ne country other than t	ication(s) for patent or inventor's cert he United States, listed below and I CT International application having a	nave also		
Application	on No. Cou	ntry	Filing Date	Priority Claimed (Yes / No)			
				HH			
		4. i	e e	. HH			
I hereby claim the b	enefit under 35 U.S.C. § 119(e) of a		visional Application(s) list				
	U.S. Provisional Application I 60/439190	lo.		U.S. Filing Date			
	60/439190			09 January 2003			
United States, lister application or PCT information which is	d below and, insofar as the subject International Application in the mare known to me to be material to pate the national or PCT International fi	t matter of each of the ner provided by the entability as defined it	ne claims of this applica first paragraph of 35 U.s n 37 CFR § 1.56 which b	y PCT International Application designation is not disclosed in the prior Unit S.C. § 112, I acknowledge the duty to became available between the filing discrete.	ed States o disclose		
· · · • · · · · · · · · · · · · · · · ·		· 3			•		
	RNEY: I hereby appoint the followin ademark Office connected therewith		gent(s) the power to pro-	secute this application and transact all	business		
Name: JESSICA	M. SINNOTT	•	Registration No.:	34,015			
Send corresponden	ce and direct			Tel. No.			
telephone calls to: JESSICA	A.M. SINNOTT	E. I. du Pont de Ne Legal - Patents Wilmington, DE 19	mours and Company 9898, U.S.A.	(302) 992-4895 Fax No. (302) 992-4773	,		
to be true; and furth	at all statements made herein of my			nts made on information and belief are			
of the application or	ner that these statements were made both, under Section 1001 of Title 1 any patent issuing thereon.			iful false statements may jeopardize the	ole by fine		
	both, under Section 1001 of Title 1 any patent issuing thereon.	8 of the United States	Code and that such wil	Iful false statements may jeopardize ti	ole by fine		
of the application or Full Name of Inventor	both, under Section 1001 of Title 1	8 of the United States	Code and that such wil		ole by fine		
Full Name	both, under Section 1001 of Title 1 any patent issuing thereon. Last Name	8 of the United States INVENTO First Name	Code and that such wil	Iful false statements may jeopardize to	ole by fine		
Full Name	both, under Section 1001 of Title 1 any patent issuing thereon. Last Name CRONIN	8 of the United States INVENTO First Name JAMES	Code and that such wilk(S)	Iful false statements may jeopardize to Middle Name TIMOTHY	ole by fine		

		INVENTOR(S)			
ull Name	Last Name	First Name	Middle Name		
f Inventor	ELKINS	THOMAS	SHIELDS		
· ·	Signature (please sign full name):	Date:			
tesidence &	City	State or Foreign Country	Country of Citizenship		
itizenship	WAVERLY	TENNESSEE	US		
ost Office address	Post Office Address	City	State or Country	Zip Code	
audress	488 GREGSON PLACE	WAVERLY	TENNESSEE	37185	
ull Name	Last Name	First Name	Middle Name		
f Inventor	HELBERG Signature (please sign full name):	LISA	EDITH		
	Signature (please sign full name):		Date:		
tesidence &	City	State or Foreign Country	Country of Citizenship	-	
itizenship	MIDDLETOWN	DELAWARE	US		
ost Office	Post Office Address	City	State or Country	Zip Code	
Address	111 BARNACLE COURT	MIDDLETOWN	DELAWARE	19709	
ull Name	Last Name	First Name	Middle Name		
f Inventor	MIRABELLA Signature (please sign full name):	STEVE	EDWARD		
	Signature (please sign full name):		Date:		
tesidence &	City	State or Foreign Country	Country of Citizenship		
itizenship	NÉW JOHNSONVILLE	TENNESSEE	US		
ost Office Address	Post Office Address 613 BLUE HERON COVE	City	State or Country TENNESSEE	Zip Code 37134	
uui ess	013 BLUE HERON COVE	NEW JOHNSONVILLE	TEINNESSEE	3/ 134	
ull Name	Last Name MERKLE, JR.	First Name JAMEŞ	Middle Name ELLIOTT		
f Inventor	Signature (please sign full pargle):				
	Jon Glad	1 //huh /-		2005	
Residence & Citizenship	LONG BEACH TN.	State or Foreign Country TENNESSEE	Country of Citizenship US		
ost Office	Post Office Address	City	State or Country	Zip Code	
Address	20289 HAYIES ROAD	LONG BEACH	TENNESSEE	39560	
ull Name	Last Name	First Name	Middle Name	<u>_</u>	
f Inventor	Inventor Signature (please sign full name):		Date:		
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Residence & Citizenship	City	State or Foreign Country	Country of Citizenship		
Post Office	Post Office Address	City	State or Country	Zip Code	
Address	•				
ull Name	Last Name	First Name	Middle Name		
f Inventor					
	Signature (please sign full name):		Date:	e:	
Residence &	City	State or Foreign Country	Country of Citizenship		
ost Office	Post Office Address	City	State or Country	Zip Code	
Address	Post Office Address	City	State or Country		

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Rev. 06/95

Docket Number: CH2883 US PCT

DECLARATION and POWER OF ATTORNEY

As a below-named i	inventor, I hereby declare that:							
My residence, post office address and citizenship are as stated below next to my name.								
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:								
	OF TITANIUM TETRACHLORIC		111					
						1		
the specification of	which is attached hereto unless the f	ollowing	box is checked:					
was filed on 09	January 2004 as U.S. Applicat	ion No.		or PCT Internation	al Application No. PCT/US	04/00765		
			applicable).					
	I have reviewed and understand the			dentified specification	including the claims, as ame	nded by any		
amendment referre					2	ided by any		
I hereby claim forei	ign priority benefits under 35 U.S.C.	. § 119(a	a)-(d) or § 365(b)	of any foreign application	on(s) for patent or inventor's	ertificate, or		
identified below, by	CT International application which di checking the box, any foreign appli	cation fo	ed at least one co or patent or invento	ountry other than the U or's certificate, or PCT Ir	inited States, listed below an International application having	a nave also a a filing date		
before that of the ap	oplication on which priority is claimed on No. Cour		Fi	ling Date	Priority Claimed (Yes / No)			
		•		•				
I hereby claim the b	enefit under 35 U.S.C. § 119(e) of a U.S. Provisional Application N	•	d States Provisiona		elow. .S. Filing Date			
	60/439190	10.			January 2003			
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	•							
United States, liste application or PCT information which is	penefit under 35 U.S.C. § 120 of any d below and, insofar as the subject International Application in the mans known to me to be material to pate d the national or PCT International fillion No.	t matter iner proventability ing date	of each of the cla rided by the first p as defined in 37 (ims of this application in aragraph of 35 U.S.C. CFR § 1.56 which becare	is not disclosed in the prior U § 112, I acknowledge the dut	nited States to disclose		
:								
					•			
	RNEY: I hereby appoint the following rademark Office connected therewith		y(s) and/or agent(s) the power to prosecut	te this application and transact	all business		
Name: JESSICA	A.M. SINNOTT			Registration No.: 34	I,015			
Send corresponden	ce and direct				Tel. No.			
telephone calls to:				s and Company	(302) 992-4895			
JESSICA	M. SINNOTT		Patents gton, DE 19898,	U.S.A.	Fax No. (302) 992-4773			
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.								
			INVENTOR(S)					
Full Name	Last Name CRONIN	1	First Name JAMES		Middle Name TIMOTHY			
of Inventor	Signature please signatuli name:	/_	ACTIVIES .	· · · -	Date:	-		
Pasidons: °		<u> </u>	Ctata or F!	Country	6/24/05			
Residence & Citizenship	City TOWNSEND DE		State or Foreign DELAWARE	Country	Country of Citizenship US			
Post Office	Post Office Address		City		State or Country	Zip Code		
Address	188 GREEN GIANT ROAD		TOWNSEND		DELAWARE	19734		

Additional Inventors are being named on separately numbered sheets attached hereto.

2-00

Full Manne	1	INVENTOR(S)			
Full Name of Inventor	Last Name ELKINS	First Name THOMAS	Middle Name SHIELDS		
	Signature (please sign full name): Monus Shields Ells	úis	Date: 6/16/2005		
Residence & Citizenship	City WAVERLY TN	State or Foreign Country TENNESSEE	Country of Citizenship US		
Post Office Address	Post Office Address 488 GREGSON PLACE	City WAVERLY	State or Country TENNESSEE	Zip Code 37185	
Full Name of Inventor	Last Name HELBERG	First Name . LISA	Middle Name . EDITH		
	Signature (please sign full name):		Date:		
Residence & Citizenship	City MIDDLETOWN	State or Foreign Country DELAWARE	Country of Citizenship US	•	
Post Office Address	Post Office Address 111 BARNACLE COURT	City MIDDLETOWN	State or Country DELAWARE	Zip Code 19709	
Full Name of Inventor	Last Name MIRABELLA	First Name STEVE	Middle Name EDWARD		
	Signature (please sign full name):	Ma	Date: 6/16/2005		
Residence & Citizenship	City NEW JOHNSONVILLE TN.	State or Foreign Country TENNESSEE	Country of Citizenship US	3	
Post Office Address	Post Office Address 613 BLUE HERON COVE	City NEW JOHNSONVILLE	State or Country TENNESSEE	Zip Code 37134	
Full Name of Inventor	Last Name MERKLE, JR.	First Name JAMES	Middle Name ELLIOTT		
	Signature (please sign full name):		Date:		
Residence & Citizenship	City LONG BEACH	State or Foreign Country TENNESSEE	Country of Citizenship US		
Post Office Address	Post Office Address 20289 HAYIES ROAD	City LONG BEACH	State or Country TENNESSEE	Zip Code 39560	
Full Name of Inventor	Last Name	First Name	Middle Name	<u> </u>	
	Signature (please sign full name):		Date:		
Residence & Citizenship	City	State or Foreign Country	Country of Citizenship		
Post Office Address	Post Office Address	City	State or Country	Zip Code	
Full Name of Inventor	Last Name	First Name	Middle Name	<u>L</u>	
	Signature (please sign full name): Date:		Date:		
Residence & Citizenship	City	State or Foreign Country	Country of Citizenship		
Post Office Address	Post Office Address	City	State or Country	Zip Code	

DECLARATION and POWER OF ATTORNEY

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My residence, post	office address and citizenship are as	stated b	elow next to my n	ame.			
I believe I am the o below) of the subject	riginal, first and sole inventor (if onle t matter which is claimed and for wh	y one na ich a pat	ame is listed below ent is sought on th	v) or an original, first a le invention entitled:	nd joint inventor (if plural name	s are listed	
PURIFICATION	OF TITANIUM TETRACHLORIC	ÞΕ				:	
						1	
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the specification of v	which is attached hereto unless the f	ollowing	box is checked:				
☑ was filed on 09	January 2004 as U.S. Application	ion No		or PCT Internation	nal Application No. PCT/USO	4/00765	
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before that of the ap	plication on which priority is claimed		•	ling Date	Priority Claimed (Yes / No)	_	
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I haraby alaim the h	onofit under 25 II C.C. \$ 440(a) of or		d Chaha a Danidala -	-1 A1' A' (-) b' - A d b	<u> </u>		
Thereby claim the b	enefit under 35 U.S.C. § 119(e) of ar U.S. Provisional Application N	-	3 States Provisiona		elow. J.S. Filing Date		
	60/439190				January 2003		
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information which is	known to me to be material to pate the national or PCT International fil	entability	as defined in 37 (CFR § 1.56 which beca	me available between the filing	date of the	
Applicati		-	ng Date		Status		
			•				
					•		
POWER OF ATTOR	RNEY: I hereby appoint the following ademark Office connected therewith	attorne	y(s) and/or agent(s) the power to prosecu	ite this application and transact	all business	
Name: JESSICA	M. SINNOTT			Registration No.: 3	4,015		
Send correspondentelephone calls to:	ce and direct				Tel. No.		
	M SINIOTT		Pont de Nemour Patents	s and Company	(302) 992-4895		
JESSICA	M. SINNOTT		gton, DE 19898,	U.S.A.	Fax No. (302) 992-4773		
to be true; and furth	at all statements made herein of my er that these statements were made	with the	knowledge that w	villful false statements a	nade on information and belief a	able by fine	
of the application or	both, under Section 1001 of Title 18 any patent issuing thereon.	of the t	United States Code	e and that such willful t	alse statements may jeopardize	the validity	
			INVENTOR(S)				
Full Name of Inventor	Last Name CRONIN		First Name JAMES		Middle Name TIMOTHY		
	Signature (please sign full name):			•	Date:		
Residence & Citizenship	City TOWNSEND		State or Foreign DELAWARE	Country	Country of Citizenship US		
Post Office	Post Office Address	`	City		State or Country	Zip Code	
Address	188 GREEN GIANT ROAD		TOWNSEND		DELAWARE	19734	